NOVEMBER/DECEMBER 2023

CSCS55/CSCA55 — SOFTWARE ENGINEERING

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

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1. Write a note on Application Software.

2. What is meant by Process Pattern?

3. Define Requirement Engineering.

4. List the basic guidelines for conducting a collaborative requirements gathering meeting.

5. What is Cohesion?

6. Why is Architecture Important?

7. Define Smoke Testing.

8. Comment on White Box Testing.

9. Write a note on Project Planning Process.

10. Interpret on Earned Value Analysis.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) What are the elements of Software Process? Explain the various generic process frame work activities in software engineering.

Or

(b) Explain the Water fall model.

12. (a) How to establish the groundwork in requirement engineering?

Or

(b) Discuss on requirement modeling approaches.

13. (a) Clarify the evolution of software design.

Or

(b) Define Transform Mapping. Explain the data flow diagrams into a software architecture design steps.

14. (a) What is meant by Integration Testing? Discuss the number of different incremental integration strategies.

Or

(b) Determine about Graph-Based Testing Methods.

15. (a) Write short note on Software Scope and Feasibility.

Or

(b) Discuss on software project review guidelines.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the nature of software.

17. Write a detailed note on Requirement Analysis of Software.

18. Illustrate on various design concepts of software engineering.

19. Describe the different strategic approaches of software testing.

20. Elucidate about Project Scheduling. Write its basic Principles and relationship.

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